RACU 5 DEACTIVATION

NOTE
This procedure assumes that MDM N1-2 is Primary and MDM N1-1 is Secondary.

1. INHIBIT NCS AUTORETRY

PCS

Node 1: C&DH: MDM N1-1
Secondary NCS MDM Node 1
'Software Control'

sel MDM Utilities
sel Commands

cmd Second_NCS_Inh_NCS_Retry **Execute**

Secondary_NCS_MDM_Utilities
√Auto Retry Inhibit - X

2. COMMAND N1-2 TO DIAGNOSTICS

NOTE
1. Expect 'Disconnect' message on PCS.
2. Possible PDI DECOM Fail message.

Node 1: C&DH: MDM N1-2
Primary NCS MDM Node 1
'MDM Major State'

sel Commands
cmd N1_2_MDM_Cmd_Xsitn_Dgnstc_State_Arm **Execute**
cmd N1_2_MDM_Xsitn_Dgnstc_State **Execute**

3. TELEMETRY RECOVERY ON OIU

CRT

SM 212 OIU

BUS 4 BC - ITEM 15 EXEC (*)
BUS 3 RT - ITEM 10 EXEC (*)

Change OIU N1 Phys Dev to N1-1 - ITEM 18 +4 EXEC

Wait 1 minute from diagnostic command.

CRT

Reload OIU Format 2 - ITEM 1 +2 EXEC

4. TELEMETRY RECOVERY ON PCS

PCS On PCS attached to PDIP N1-2 port

sel icon to open PCS CDS Main Control Panel Window
√status box - yellow
sel 'Connect to MDM'
√status box - green

Verify 'connected to MDM' indicated.

Home page will display when load complete (~1 minute).

NOTE
Expect PCS FDA 'CDH MDM N1-1 detected RT fail MDM N1-2 - PMA1'.

Node 1: C&DH: MDM N1-1
Primary NCS MDM Node 1
'MDM Major State'

√State - Primary

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* If State not Primary or no N1-1 TLM *
* √**MCC** *
****

5. REMOVE POWER FROM N1-2 MDM AT RPC

NOTE
Expect PCS FDA (LED and message only) when MDM power removed.

Node 1: C&DH: MDM N1-2
Secondary NCS MDM Node 1
'RPCM N1RS2 C'

sel RPC 13
sel Commands
cmd Open **Execute**
√Position - Op

6. DISABLE RT DEVICES I/O ON EPS BUSES

PCS Node 1: C&DH: MDM N1-1
Primary NCS MDM Node 1

sel UB EPS_N1 23
sel RT Status
sel Inhib_RT Commands

PRIM_NCS_UB_EPS_N1_23_Inhib

cmd Inhib_RPCM_N1RS1_A **Execute**
cmd Inhib_RPCM_N1RS1_B **Execute**
cmd Inhib_RPCM_N1RS1_C **Execute**

PRIM_EPS_N1_23_RT
Status

√RT Inhibit 20, 19, 18 (three) – X

7. COMMAND FGB RACU-5 OFF

NOTE
RACU commands sent from Orbiter will not work if FGB relay matrix is in **MCC-M** command state (COMMANDING - INH). Crew can follow ground activities using the "If ENA" block below.

CRT

SM 204 FGB

√COMMANDING - INH (Moscow Commanding)

If COMMANDING - INH

Crew ⇓ **MCC-H**: "Ready for RACU 5 Power OFF"
MCC-H ⇒ **MCC-M**: "Go for RACU 5 Power OFF"

RUSSIAN GROUND	AOS	LOS
Pass 1	___/___:___:___	___/___:___:___
Pass 2	___/___:___:___	___/___:___:___

MCC-M ⇒ **MCC-H** ⇑ Crew:
"RACU 5 Powered Off at __/___:___:__GMT"

If COMMANDING - ENA

MCC-M ⇒ **MCC-H**: "Go for RACU 5 Power OFF"
MCC-H ⇑ Crew: "Moscow GO for RACU 5 Power OFF"

On MCC GO

MCDS

SM 204 FGB

RACU 5 Power OFF VIA NCS – ITEM 6 EXEC
√RACU 5 Input Amps < 2.0 A
√Output Volts ~0.0 V

√RACU 5 Power Off - ∗

PCS

nav FGB: EPS
FGB: EPS: RACU Details
RACU Details

sel Commands
cmd RACU 5 - Off **Execute**
√RACU 5 Converter - Off
√RACU 5 Input Current < 2.0 A
√Output Voltage ~0.0 V